

stator windings, placing the permanently magnetized rotor in a target position of a second plurality of positions, each position of the first plurality of positions having assigned thereto a corresponding one of the second plurality of positions as the target position; and

a network having  $n$  inputs and  $m$  outputs,  $n$  being a number of the first plurality of positions and  $m$  being a number of the stator windings, wherein:

each one of the stator windings is connected to one of the  $m$  outputs,

and

the network distributes to the stator windings a current applied at one of the  $n$  inputs in order to set one of the first plurality of positions that is assigned to a respective one of the  $n$  inputs.

23. (Amendment) A rotary switch, comprising:

a rotary actuator that includes:

a permanently magnetized rotor;

a plurality of stator windings surrounding the permanently magnetized rotor in a rim-like fashion and for generating a magnetic field, the stator windings placing the permanently magnetized rotor in one of a first plurality of positions, wherein the stator windings are coplanar and arranged so as to be unpaired;

an arrangement for exerting a corrective torque on the permanently magnetized rotor, the arrangement for exerting the corrective torque, in a currentless state of the stator windings, placing the permanently magnetized rotor in a target position of a second plurality of positions, each position of the first plurality of positions having assigned thereto a corresponding one of the second plurality of positions as the target position; and

a network having  $n$  inputs and  $m$  outputs,  $n$  being a number of the first plurality of positions and  $m$  being a number of the stator windings, wherein:

each one of the stator windings is connected to one of the  $m$  outputs, and